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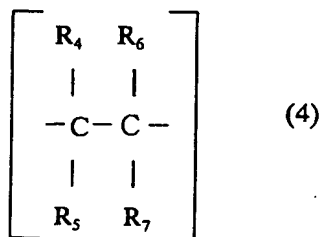
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(54) Title: CATIONIC GRAFT-COPOLYMER FOR NON-VIRAL GENE DELIVERY VECTOR



(57) Abstract: A cationic graft-copolymer for a non-viral gene delivery vector comprising a unit derived from a cationic derivative of a water-soluble linear polymers having a hydroxyl groups, namely, a cationic polysaccharide of the following formula (1) [C<sub>6</sub>H<sub>7</sub>O<sub>2</sub> (OH)<sub>3-a</sub> (OX)<sub>a</sub>]<sub>x</sub> H<sub>2</sub>O (1) and the cationic derivative of polyvinylalcohol of the following formula (2) or the cationic derivative of the partial hydrolyzed polyvinylalcohol of the following formula (3) [CH<sub>2</sub> CH(OH)<sub>1-b</sub> (OX)<sub>b</sub>]<sub>n</sub> (2) [CH<sub>2</sub>CH(OH)<sub>1-b-c</sub> (OX)<sub>b</sub> (OAc)<sub>c</sub>]<sub>n</sub> (3) and a unit derived from a polymerizable olefin compound of the following formula (4) R<sub>4</sub> R<sub>6</sub> | - C - C - (4) | | R<sub>5</sub> R<sub>7</sub> (a, x, b, n, c, Ac, X, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, and R<sub>7</sub> are defined in claim 1-6); a process for preparing the same and a transfection reagent made therefrom..